

Ronfalin ABS Appliance White # 1 (1FM4A0T)

Acrylonitrile Butadiene Styrene

LyondellBasell Industries

Engineering Plastics

Product Description

General purpose ABS grade

General

Features	• Good Flow
Processing Method	• Injection Molding
Resin ID (ISO 1043)	• ABS

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	1.04 g/cm ³	1.04 g/cm ³	ISO 1183/A
Melt Mass-Flow Rate (MFR) (230°C/3.8 Kg)	6.6 g/10 min	6.6 g/10 min	ASTM D1238
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Modulus	362000 psi	2500 MPa	ISO 527-1/1A/1
Tensile Strength (Yield, 73°F (23°C))	6520 psi	45.0 MPa	ASTM D638
Tensile Strain (Yield)	2.4 %	2.4 %	ISO 527-2/1A/50
Flexural Modulus ¹	341000 psi	2350 MPa	ISO 178
Flexural Stress			
4.8% Strain ¹	11900 psi	82.0 MPa	ISO 178
Yield, 73°F (23°C)	9430 psi	65.0 MPa	ASTM D790
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Notched Izod Impact	4.6 ft-lb/in	250 J/m	ASTM D256
Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Ball Indentation Hardness (H 358/30)	18600 psi	128 MPa	ISO 2039-1
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load			ASTM D648
66 Psi (0.45 Mpa), Unannealed	192 °F	88.9 °C	
264 Psi (1.8 Mpa), Unannealed	167 °F	75.0 °C	
Vicat Softening Temperature			
--	203 °F	95.0 °C	ISO 306/B50
--	216 °F	102 °C	ISO 306/A50

Additional Information

- 1.) Not for use in food contact applications
- 2.) Not for use in medical or pharmaceutical applications



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Injection	Nominal Value (English)	Nominal Value (SI)
Drying Temperature	176 °F	80 °C
Drying Time	2.0 to 4.0 hr	2.0 to 4.0 hr
Processing (Melt) Temp	446 to 482 °F	230 to 250 °C
Mold Temperature	104 to 176 °F	40 to 80 °C

